

60/538/13

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F16J15/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched - (classification system followed by classification symbols)

IPC 7 F16J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 066 024 A (HAGG DIETER ET AL) 19 November 1991 (1991-11-19) column 1, line 29 - line 33 column 1, line 65 -column 2, line 2 column 2, line 50 -column 3, line 13 figures 1-3	1-11
X	DE 39 07 614 A (MOTOREN TURBINEN UNION) 13 September 1990 (1990-09-13) figure 1 column 2, line 22 - line 50	1-11
X	WO 99 06673 A (SEALOL) 11 February 1999 (1999-02-11) figures 11,15 page 6, line 30 -page 7, line 1 page 7, line 19 - line 21	1,2,8-11



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

17 February 2004

02/03/2004

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/EP 03/13437

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5066024	A	19-11-1991	DE	3802653 A1	03-08-1989	
			DE	3907614 A1	13-09-1990	
			FR	2626646 A1	04-08-1989	
			GB	2214998 A ,B	13-09-1989	
			IT	1228063 B	28-05-1991	
DE 3907614	A	13-09-1990	DE	3802653 A1	03-08-1989	
			DE	3907614 A1	13-09-1990	
			FR	2626646 A1	04-08-1989	
			GB	2214998 A ,B	13-09-1989	
			IT	1228063 B	28-05-1991	
			US	5066024 A	19-11-1991	
WO 9906673	A	11-02-1999	WO	9906673 A1	11-02-1999	

**To Point V**

**Reasoned statement with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement.**

1 **With regard to Claim 1:**

- 1.1 Claim 1 satisfies the requirements of Article 33(2) to 33(4) PCT in terms of novelty, inventive step and industrial applicability.
- 1.2 Since none of the publications cited in the search report or assessed in the description introduction specifies the features of the independent claim 1 in their entirety, the subject of claim 1 is novel.
- 1.3 The publications mentioned in the search report do not give a person skilled in the art any suggestion, in the case of a brush seal according to the preamble of the main claim 1, according to US-A-5,066,024, of executing the fixing according to the characterizing part of claim 1. The measure suitable for producing a multiple brush ring carrier, the second brush ring carrier being fixed to the first brush ring carrier by means of a snap connection (in particular, an unreleasable snap connection) arises from a step which does not constitute a conclusive development of the cited prior art. The brush seal according to claim 1 is therefore based on inventive activity.
- 1.4 The subject of claim 1 can be produced and can be used and is therefore also deemed to be commercially applicable.

2 **With regard to claims 2-11:**

- 2.1 Claims 2-11 are dependent on claim 1 and consequently likewise fulfill the requirements of the PCT in terms of novelty, inventive step and industrial applicability according to Articles 33(2) to (4) PCT.